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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,347	04/20/2004	Hiroshi Shimizu	8043-1021	2606
466 7590 11/01/2007 YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202			EXAMINER GOODCHILD, WILLIAM J	
			ART UNIT 2145	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/827,347

Applicant(s)

SHIMIZU, HIROSHI

Examiner

William J. Goodchild

Art Unit

2145

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 20 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 09/26/2006.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Priority*

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, 7-11, 13 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Weiss et al., (hereinafter Weiss), (US Publication No. 2002/0144144).

In reference to claim 1, Weiss teaches a method / system comprising: a plurality of sub-networks [figure 1]; an authentication server for authenticating a client in one of the plurality of sub-networks in response to an authentication request of the client when establishing a communication session for packet communication between the terminal of the client and a different sub-network as a client's target [paragraph 3, lines 9-16]; an address processing unit for executing, after the authentication by the authentication server and on the basis of an instruction from the authentication server, an address processing of packet signals in packet communication between the client's terminal and the sub-network as the client's target [paragraph 3, lines 16-24].

Art Unit: 2145

In reference to claim 2, Weiss teaches the method / system of claim 1 wherein: the authentication request from the client includes data of the sub-network as the client's target [paragraph 3].

In reference to claim 3, Weiss teaches the method / system of claim 1 wherein: the authentication server has a correspondence table provided for each client and showing one or more sub-networks as client's targets and specifies the sub-network as the client's target on the basis of the correspondence table, and an address translation table showing the correspondence between data specifying the communication session on the packet signal and address data corresponding to the sub-network as the client's target, is set in the address processing unit [paragraphs 3, 9 and 28, (encapsulation)].

In reference to claim 4, Weiss teaches the method / system of claim 3 wherein: the client's terminal sends out the packet signal by setting the address of the address processing unit as destination address [paragraph 3, encapsulation]; and the address processing unit specifies the sub-network as the client's target on the basis of the data specifying the communication session on the packet signal in the address translation table, and translates the destination address of the packet signal to address data corresponding to the specified sub-network [paragraph 3, encapsulation].

Art Unit: 2145

In reference to claim 7, Weiss teaches the method / system of claim 1 wherein: the address processing unit receiving a packet signal addressed to the client from the sub-network as the client's target, translates the source address of the packet signal to the own address and sends out resultant packet signal [paragraph 3, encapsulation].

In reference to claim 8, Weiss teaches the method / system of claim 1 wherein: the sub-network has a gateway unit, and the address of the gateway unit is used as the address corresponding to the sub-network [paragraph 3, local VPN gateway, remote VPN gateway].

In reference to claim 9, Weiss teaches the method / system of claim 8 wherein: the gateway unit and the client terminal have a function of tunnel communication with respect to the packet signal having been capsulated by adding a capsulation header describing the address [paragraph 3, encapsulation]; and the gateway unit deletes the capsulation header from the packet signal addressed to the gateway unit and feeds the resultant packet signal to the own sub-network [paragraph 3, encapsulation].

In reference to claim 10, Weiss teaches the method / system of claim 9 wherein: the gateway unit records, in correspondence to one another, the source address of the packet signal addressed to its own in the capsulation header and the address assigned to the client's terminal in the own network, and when detecting a packet signal with the correspondence address as the destination address, encapsulates the packet signal by

setting the source address in the capsulation header that is made to correspond to the correspondence address as the destination address of the packet signal and also setting the own address as the source address of the packet signal for sending out the packet signal [paragraph 3].

In reference to claim 11, Weiss teaches the method / system of claim 1 wherein: a plurality of the sub-networks are connected to pluralities of authentication servers and each have a proxy authentication server; the client's terminal executes the request of the client authentication by accessing the proxy authentication server; and the proxy authentication server specifies the authentication server of the sub-network as the client's target on the basis of the authentication request from the client, inquires the specified authentication server about whether the authentication is possible or not, and when the ! client is certified by the authentication server allows the client's accessing [paragraphs 35 and 38].

In reference to claim 13, Weiss teaches the method / system of claim 1 wherein: the authentication server reports, at the time of the client authentication, the address of the address processing unit to be accessed to the terminal of the pertinent client; and the client terminal executes packet communication with the sub-network as the client's target via the address processing unit reported from the authentication server [paragraphs 3, 28 and 38].

In reference to claim 17, Weiss teaches the method / system of claim 2 wherein: the authentication server has a correspondence table provided for each client and showing one or more sub-networks as client's targets and specifies the sub-network as the client's target on the basis of the correspondence table, and an address translation table showing the correspondence between data specifying the communication session on the packet signal and address data corresponding to the sub-network as the client's target, is set in the address processing unit [paragraphs 9 and 28].

3. Claims 1-10, 12 and 14-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Paulsen et al., (hereinafter Paulsen), (US Patent No. 6,055,575).

In reference to claim 1, Paulsen teaches a method / system comprising: a plurality of sub-networks [figure 1]; an authentication server for authenticating a client in one of the plurality of sub-networks in response to an authentication request of the client when establishing a communication session for packet communication between the terminal of the client and a different sub-network as a client's target; an address processing unit for executing, after the authentication by the authentication server and on the basis of an instruction from the authentication server, an address processing of packet signals in packet communication between the client's terminal and the sub-network as the client's target [column 4, lines 22-49 and figure 1].

Art Unit: 2145

In reference to claim 2, Paulsen teaches the method / system of claim 1 wherein: the authentication request from the client includes data of the sub-network as the client's target [column 5, line 55 – column 6, line 28].

In reference to claim 3, Paulsen teaches the method / system of claim 1 wherein: the authentication server has a correspondence table provided for each client and showing one or more sub-networks as client's targets and specifies the sub-network as the client's target on the basis of the correspondence table, and an address translation table showing the correspondence between data specifying the communication session on the packet signal and address data corresponding to the sub-network as the client's target, is set in the address processing unit [column 5, line 55 – column 6, line 28].

In reference to claim 4, Paulsen teaches the method / system of claim 3 wherein: the client's terminal sends out the packet signal by setting the address of the address processing unit as destination address; and the address processing unit specifies the sub-network as the client's target on the basis of the data specifying the communication session on the packet signal in the address translation table, and translates the destination address of the packet signal to address data corresponding to the specified sub-network [column 5, line 55 – column 6, line 28].

In reference to claim 5, Paulsen teaches the method / system of claim 3 wherein: the source address is used as the data specifying the communication session on the packet signal [column 5, line 55 – column 6, line 28].

In reference to claim 6, Paulsen teaches the method / system of claim 5 wherein: session discrimination data is set on the packet signal as at least part of the data specifying the communication session [column 5, line 55 – column 6, line 28].

In reference to claim 7, Paulsen teaches the method / system of claim 1 wherein: the address processing unit receiving a packet signal addressed to the client from the sub-network as the client's target, translates the source address of the packet signal to the own address and sends out resultant packet signal [column 5, line 55 – column 6, line 28].

In reference to claim 8, Paulsen teaches the method / system of claim 1 wherein: the sub-network has a gateway unit, and the address of the gateway unit is used as the address corresponding to the sub-network [column 5, line 55 – column 6, line 28].

In reference to claim 9, Paulsen teaches the method / system of claim 8 wherein: the gateway unit and the client terminal have a function of tunnel communication with respect to the packet signal having been capsulated by adding a capsulation header describing the address; and the gateway unit deletes the capsulation header from the

Art Unit: 2145

packet signal addressed to the gateway unit and feeds the resultant packet signal to the own sub-network [column 5, line 55 – column 6, line 28].

In reference to claim 10, Paulsen teaches the method / system of claim 9 wherein: the gateway unit records, in correspondence to one another, the source address of the packet signal addressed to its own in the capsulation header and the address assigned to the client's terminal in the own network, and when detecting a packet signal with the correspondence address as the destination address, encapsulates the packet signal by setting the source address in the capsulation header that is made to correspond to the correspondence address as the destination address of the packet signal and also setting the own address as the source address of the packet signal for sending out the packet signal [column 5, line 55 – column 6, line 28].

In reference to claim 12, Paulsen teaches the method / system of claim 6 wherein: the authentication server issues session discrimination data specifying the communication session to the terminal of the client certified either directly by it or via the authentication server; and the client's terminal adds the session discrimination data issued from the authentication server to the packet signal [column 5, line 55 – column 6, line 28].

In reference to claim 14, Paulsen teaches the method / system of claim 1 wherein: the sub-network has a gateway unit positioned as the client; and the gateway unit executes tunnel communication of the capsulated packet signal with the sub-network as the

Art Unit: 2145

target of the client in the own sub-network, executes, when receiving an authentication request for the communication session establishment from the client in the Own sub-network, the client authentication request to the authentication server in lieu of the client, and uses session discrimination data for specifying the communication session as at least part of the data specifying the communication session on the packet signal [column 5, line 55 – column 6, line 28].

In reference to claim 15, Paulsen teaches the method / system of claim 14 wherein: the server reports, in response to the client authentication request from the gateway unit, the data specifying the address of the sub-network as the client's target to the gateway unit; and when the gateway unit detects the packet signal addressed to the sub-network as the client's target on the basis of the data reported from the authentication server, it specifies the client from the source addresses of the packet signal, and when it confirms that the specified client has received the authentication for the communication session establishment, it encapsulates the packet signal by setting the session discrimination data in part of the capsulation header and sends out the capsulated packet signal to the address processing unit [column 5, line 55 – column 6, line 28].

In reference to claim 16, Paulsen teaches a method / system comprising: an authentication server executes authentication of a client in an open network in response to an authentication request from the client at the time of the accessing of a department network by the client, and an address processing unit executes, after the authentication

of the client by the authentication server and on the basis of an instruction from the authentication server, an address processing of packet signal concerning packet communication between the client and the department network [column 4, lines 22-49 and figure 1].

In reference to claim 17, Paulsen teaches the method / system of claim 2 wherein: the authentication server has a correspondence table provided for each client and showing one or more sub-networks as client's targets and specifies the sub-network as the client's target on the basis of the correspondence table, and an address translation table showing the correspondence between data specifying the communication session on the packet signal and address data corresponding to the sub- network as the client's target, is set in the address processing unit [column 5, line 55 – column 6, line 28].

In reference to claim 18, Paulsen teaches the method / system of claim 4 wherein: the source address is used as the data specifying the communication session on the packet signal [column 5, line 55 – column 6, line 28].

In reference to claim 19, Paulsen teaches the method / system of claim 2 wherein: the address processing unit receiving a packet signal addressed to the client from the sub-network as the client's target, translates the source address of the packet signal to the own address and sends out resultant packet signal [column 5, line 55 – column 6, line 28].

In reference to claim 20, Paulsen teaches the method / system of claim 3 wherein: the address processing unit receiving a packet signal addressed to the client from the sub-network as the client's target, translates the source address of the packet signal to the own address and sends out resultant packet signal [column 5, line 55 – column 6, line 28].

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Goodchild whose telephone number is (571) 270-1589. The examiner can normally be reached on Monday - Friday / 9:00 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571) 272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2145

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WJG  
10/25/2007



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